

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION  
OFFICE OF THE STATE FIRE MARSHAL  
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM

# LISTING SERVICE

**LISTING No.** 7257-0447:145 Page 1 of 1

**CATEGORY:** Single/Multiple Station Smoke Detector-Photoelectric

**LISTEE:** ESL/Sentrol, 12345 SW Levetron Dirve, Tualatin, OR 97062  
Contact: Gene Hukkanen (503) 691-7369

**DESIGN:** Models 4310S, 4310S-FRW and 4310SLT single station, battery operated, photoelectric type, smoke detector. All units employ an integral transmitter and sounder. Model 4310SLT also employs a supplemental heat sensor. This heat sensor is intended for use only as a supplemental to the smoke detector. It is NOT approval for use as a heat detector. Refer to listee's data sheet for detailed product description and operational considerations.

**RATING:** 3 VDC

**INSTALLATION:** In accordance with listee's printed installation instructions, applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.

**MARKING:** Listee's name, model number, electrical rating and UL label.

**APPROVAL:** Listed as single station photoelectric smoke detectors for use with Duracell DL123A, MN1500, Panasonic CR123A, Sanyo CR123A or Eveready Energizer E91 batteries.

These models can produce a distinctive temporal code pattern fire alarm signal (for total evacuation) in accordance with NFPA 72, 1996 Edition.

**NOTE:** The photoelectric type detectors are generally more effective at detecting slow, smoldering fires which smolder for hours before bursting into flame. Sources of these fires may include cigarettes burning in couches or bedding. The ionization type detectors are generally more effective at detecting fast, flaming fires which consume combustible materials rapidly and spread quickly. Sources of these fires may include paper burning in a waste container or a grease fire in the kitchen.

12-31-99



This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.

Date Issued: **APRIL 2, 2001**

*Listing Expires **June 30, 2002***

Authorized By: **BEN HO**, Supervising Deputy  
Program Manager